



■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

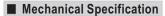
■ Features :

- Wide 4:1 DC input range
- Protections: Short circuit / Overload / Over voltage
- 1000VDC I/O isolation
- Built-in EMI filter
- Cooling by free air convection
- Built-in remote ON-OFF control
- 100% full load burn-in test
- Lost cost
- High reliability
- 2 years warranty

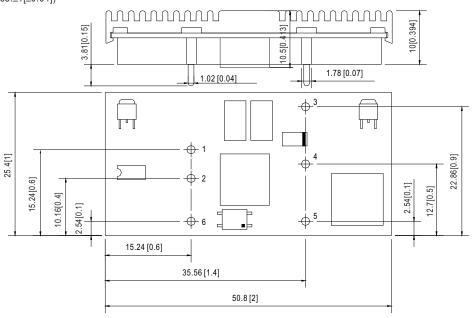


MODEL		NSD10-12D5		NSD10-12D12		NSD10-12D15		NSD10-48D5		NSD10-48D12		NSD10-48D15		
	DC VOLTAGE	5V	-5V	12V	-12V	15V	-15V	5V	-5V	12V	-12V	15V	-15V	
	RATED CURRENT	1A	1A	0.42A	0.42A	0.33A	0.33A	1A	1A	0.42A	0.42A	0.33A	0.33A	
	CURRENT RANGE	0.05 ~ 1A	0.05 ~ 1A	0.02 ~ 0.42A	0.02 ~ 0.42A	0.016 ~ 0.33A	0.016 ~ 0.33A	0.05 ~ 1A	0.05 ~ 1A	0.02 ~ 0.42A	0.02 ~ 0.42A	0.016 ~ 0.33A	0.016 ~ 0.3	
	RATED POWER	10W 10.08W				9.9W		10W		10.08W		9.9W		
OUTPUT	CAPACITIVE LOAD (max.)	±1000uF												
	RIPPLE & NOISE (max.) Note.2 75mVp-p(10% ~ 100% load)													
	VOLTAGE TOLERANCE Note.3	±4.0%		±2.5%		±2.5%		±3.0%		±2.5%		±2.5%		
	LINE REGULATION	±1.0%												
	LOAD REGULATION	±3.0%		±2.0%		±1.0%		±2.0%		±2.0%		±1.0%		
	SETUP TIME	100ms/RATED DC INPUT at full Load												
	RATED DC INPUT	12VDC 48VDC												
	VOLTAGE RANGE	9.8 ~ 36VE	C					22 ~ 72VDC						
INPUT	EFFICIENCY (Typ.)	76%	6% 77		77% 77%		%		78%		77%		77%	
	DC CURRENT	1.4A/12VDC 0.4A/48VDC												
	SHUTDOWN IDLE CURRENT	20mA/12V	'DC											
PROTECTION		Above 105% rated output power												
	OVERLOAD	Protection type: Over power limiting, recovers automatically after fault condition is removed												
	OVER VOLTAGE(CLAMP)	5.75~7.5V -5.75~-7.5V 13.8~18V -13.8~-18V 17.3~22.5V -17.3~22.5V 5.75~7.5V -5.75~-7.5V 13.8~18V -13.8~-18V 17.3~22.5V -17.3~22.5V -17.3~2~22.5V -17.3~2~22.5V -17.3~2~22.5V -17.3~2~22.5V -17.3~2~22.5V -17.3~2~22.5V -17.3												
	SHORT CIRCUIT Note.4													
FUNCTION	ON/OFF CONTROL	Logic "1" OPEN: ON logic "0" GND: OFF												
	WORKING TEMP.	-25 ~ +70°C												
ENVIRONMENT	WORKING HUMIDITY	0% ~ 95% RH max.												
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 0 ~ 95% RH												
	TEMP. COEFFICIENT	±0.03%/C (0~60°C)												
	SAFETY STANDARDS	UL62368-1, EAC TP TC 004 approved, Design refer to BS EN/EN62368-1												
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1KVDC												
EMC (Note 5)	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH												
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020												
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,6,8; BS EN/EN55035, light industry level, EAC TP TC 020												
	MTBF	12288.5K hrs min. Telcordia SR-332 (Bellcore) ; 1878.5K hrs min. MIL-HDBK-217F (25°C)												
OTHERS	DIMENSION	50.8*25.4*10mm (2"*1"*0.394") (L*W*H)												
	PACKING	0.02Kg; 300pcs/7Kg/0.94CUFT												
NOTE	 All parameters NOT specially mentioned are measured at 12, 48VDC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Short circuit not more than 60 seconds. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 230mm*230mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) To insure proper operation, a 220uF/100V electrolytic capacitor with Esr <1Ω must be added to the input line. EMC filter suggestion: 80uH Yo 80uH Yo 1000 with fan models for operating altitude higher than 2000m(6500ft) 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft)													





(Unit:mm[inch], Tolerance:±1[±0.04])

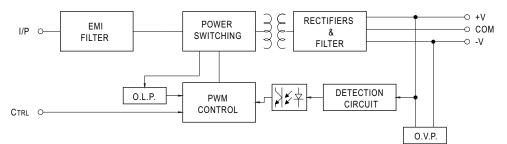


Pin. No Assignment

Pin No.	Assignment	Pin No.	Assignment				
1	+INPUT	4	COMMON				
2	-INPUT(GND)	5	-OUT				
3	+OUT	6	CONTROL				

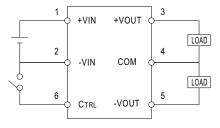
■ Block Diagram

fosc: 350KHz



■ Derating Curve

■ ON/OFF Control



CONTROL INPUT......PIN6
CONTROL COMMON.....PIN2

LOGIC COMPATIBILITY......CMOS OR OPEN COLLECTOR TTL

CONTROL VOLTAGE

ON.....+5.5VDC min. OR OPEN CIRCUIT

OFF.....+2.5VDC max. OR SHORT TO PIN2